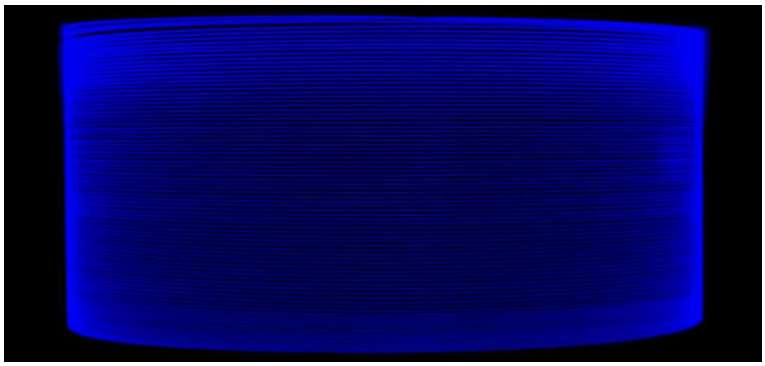
High doped erbium-doped fiber



Product Description

This Er150-5/125 fiber is a high doped Erbium fiber designed for fiber lasers and amplifiers that require highest core absorption for shortest application lengths. The core refractive index profile is tailored in order to realize a fiber with normal dispersion.

Product features

High absorption – reduces nonlinear effects 、 High birefringence – minimizes stress、 Provides highly efficient energy transfer – minimizing pump power requirements、 Low background losses

Part Number

IP-Er50-5/125

Application area

Ultrafast fiber lasers & amplifiers、 LiDAR、 Second Harmonic Generation、 Medical、 Scientific

Core parameters

Cutoff Wavelength	Core NA
⩽1300nm	0.26±0.02

General Parameters

Specifications

PN# Typical parameter			IP-Er50-5/125	IP-Er80-5/125	IP-Er100-5/125	IP-Er150-5/125
Optical Specs	Cutoff Wavelength	nm	⩽1300	⩽1300	⩽1400	⩽1500
	Core NA	-	0.26±0.02	0.26±0.02	0.26±0.02	0.26±0.02
	Background Consumption @1200nm	dB/km	⩽15.0	⩽15.0	⩽15.0	⩽15.0
	Core Absorption	dB/	50.0±	80.0±	100.0±	150.0±

	@1530nm	m	10.0	20.0	20.0	30.0
	Mode Field Diameter @1550nm	μm	5.0±0.7	5.0±0.7	5.0±0.7	5.0±0.7
Geometric & Mechanical specs	Cladding diameter	μm	125.0±1.0	125.0±1.0	125.0±1.0	125.0±1.0
	Coating diameter	μm	245.0±5.0	245.0±5.0	245.0±5.0	245.0±5.0
	Core Concentricity Error	μm	⩽0.3	⩽0.3	⩽0.3	⩽0.3
	Cladding shape	-	Round	Round	Round	Round
	coating material	-	High refractive index coating	High refractive index coating	High refractive index coating	High refractive index coating
	Matrix material	-	quartz	quartz	quartz	quartz
	Screening strength	kpsi	⩾200	⩾200	⩾200	⩾200